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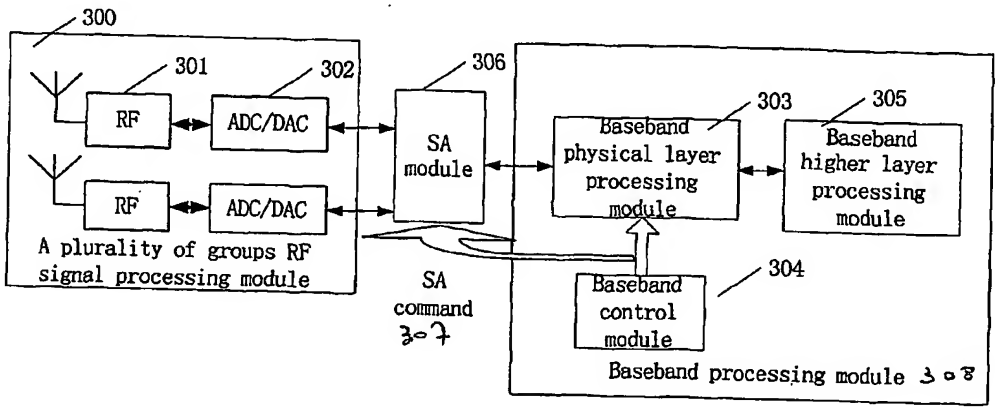
(54) Title: A SMART ANTENNA SOLUTION FOR MOBILE HANDSET



(57) Abstract: A mobile terminal with smart antennas, comprises a plurality of groups of radio frequency signal processing modules (300), for transforming received multi- channel radio frequency signals to multi- channel baseband signals; a smart antenna processing module (306), for smart antenna baseband processing said multi-channel baseband signals output from said plurality of groups of radio frequency signal processing module so as to combine said multi- channel baseband signals into single-channel baseband signals, according to control information received one-off as said smart antenna processing module is enabled; and a baseband processing module (303-305), for providing said control information to said smart antenna processing module according to data from said smart antenna processing module, and baseband processing said single-channel baseband signals outputted from said smart antenna processing module.

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